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动物分类学报

THE CHINESE SPECIES OF THE GENUS PLATYDEMA LAPORTE ET BRULLÉ (COLEOPTERA, TENEBRIONIDAE) WITH DESCRIPTION OF A NEW SPECIES

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Abstract A new species of Platydema Laporte et Brullé P. brunnea sp. nov. , is described , and a key to the known Chinese species of the genus is provided. Type specimens of the new species are deposited in the Hebei University Museum , Baoding , China (HBUM).

Key words Coleoptera , Tenebrionidae , Platydema , new species , China.

The genus Platydema Laporte et Brullé, 1831 , is a species-rich taxon of ca. 290 species known up to now. Its type species is P. dejeanii Castelneu et Brullé, 1831 and belongs currently to the tribe Diaperini (Coleoptera , Tenebrionidae). It is mostly distributed in Asia , Australia , Africa and America. There are 25 species (including the new one described below) occurring in China and they were mainly described by the following authors: Walker (1858) , Motschulsky (1873) , Lewis (1894) , Gravely (1915) , Gebien (1913 , 1925 , 1928) , Blair (1930) , Nakane (1973) , Masumoto (1982 , 1984) and Schawaller (2003 , 2004). In this paper , we describe one new species from China , provide a key to the known Chinese species. The type specimens in this study are deposited in the Hebei University Museum , Baoding , China (HBUM).

Platydema Laporte et Brullé, 1831

Platydema Laporte et Brullé, 1831. Ann. Sci. Nat. , 23 (91) : 350 (Type species : P. dejeanii Castelneu et Brullé, 1831).

Typhobia Pascoe , 1869. Ann. Mag. , 3 (4) : 281 (Type species : T. fuliginea Pascoe , 1869).

Asisochara Gebien , 1925. Phili. Jour. Sci. , 28 : 101 (Type species : A. gynadromorpha Gebien , 1925).

Histeropsis Chevrolat , 1878. Pet. Nouv. , 2 : 209 (Type species : P. americanum Laporte et Brullé, 1831).

Diagnosis. Oval or long oval , dorsum bulge or flat. Head semicircular , horned in some males ; labrum membrane wide on base ; terminal segment of maxillary palp narrow axe-shaped. Antennae a little exceeded base of Pronotum , and gradually dilated to apex ; 1st segment short and thick ; 2nd segment very short , subround ; 3rd segment longer than the other segments , nearly cone-shaped ; 4th to 11th segments wide , mostly amplexicaul-form ; terminal segment oval. Pronotum transversely wide ; anterior margin prominent ; lateral margins round ; posterior margin wide , foliiform enlarged afterward medialy ; edging whole. Scutellum very small , triangular or subround. Elytra oval , slight protuberant or flat ; lateral margin with edging ; puncture line or groove regular.

The living habit of this genus is similar to Diaperis , and they are usually found in the broad-leaved trees and polypores.

Key to the Chinese species of Platydema Laporte et Brullé

1. Elytra multicoloured , often with different fleck or stripe , or both ··· 2
   Elytra black or brown , without fleck or stripe ····· 6
2. Head without horns or tuberecles ····· 3
   Head with horns or tuberecles in male ····· 4
3. Genae as width as transverse diameter of eye ; 6 apical segments of antenna swollen ; elytra feebly metal shinning , with serrated black stripe. Body length 4.6-5.0 mm ····· P. flavopictum Gebien , 1913
   Genae width much narrower than transverse diameter of eye ; 8 apical segments of antenna swollen ; elytra bright , with black stripe , converging to suture. Body length 2.7-3.0 mm ····· P. pallidicollis (Lewis) , 1894
4. Frons with 1 flat cone-shaped horn in male ; elytra dark brown , with 4 yellowish brown , zigzag fleck. Body length 3.5-4.5 mm ····· P. aurimaculatum Gravely , 1915
   Frons with 2 horns in male ····· 5
5. Horns of frons in male symmetry , slender and parallel , base cupped ; elytra black , with red , longitudinal stripe in base and suture. Body length 4.0-5.0 mm ····· P. indicum Gebien , 1940
   Horns of frons in male sturdy , the right one longer than the left one ; both gender with tuberecles between eyes ; elytra with special stripes. Body length 4.5 mm ····· P. haemorrhoidale Gebien , 1913
6. Dorsum with strongly blue or red shinning , not dark black , occasional black or brown shinning ····· 7
   Elytra or dorsum only black , dim and matte ····· 21
7. Head simple , without horns or tuberecles ····· 8
   Head with horns or tuberecles in male ····· 13
8. Punctato-striate of elytra indistinct , punctures in striate shallow ····· 9
   Punctato-striate of elytra distinct , internal weakly convex ; body oval , feebly convex ; dorsum vermilion , with finely silky shinning ····· P. sauteri Gebien , 1913
9. Antenna with 8 swollen apical segments ····· 11
   Antenna with 6 swollen apical segments ····· 10
10. Dorsum dark green , with strongly metal shinning ; frons with wide groove on middle. Body length 5.3-6.0 mm ····· P. parachalceum Masumoto , 1982
    Dorsum brown-black , with green metal shinning ; frons without wide

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groove on middle. Body length 6.5-7.0 mm ····· P. semimetallicum Blair, **1930**

11. Distant between eyes clearly less than eye width, about 0.64 times; dorsum only black, with strongly metal shinning. Body length 6.0 mm ····· P. coeruleum Gebien, **1928**
Distant between eyes wider than eye width or equal ····· 12

12. Distant between eyes wider than eye width, about 1.37 times; dorsum single reddish brown, with weakly shinning. Body length 5.5-6.0 mm ····· P. chalceum Gebien, **1925**
Distant between eyes equal to eye width; dorsum single dark brown, with strongly metal shinning. Body length 7.5-9.0 mm ····· P. yunnanicum Schawaller, **2004**

13. 2 horns of frons in male asymmetry, protended afterward, clypeus with odontoid protuberance ····· 14
2 horns of frons in male symmetry, clypeus without odontoid protuberance ····· 15

14. The left horn longer than the right one; left horn thick flack-form, sides subparallel, apex with hairs; right horn short triangle, no hairs ····· P. alticornis Gravely, **1915**
The left horn tubercle-form, and the right one base wide, apex long and narrow, without hairs at apex ····· Platydema brunnea sp. nov.

15. Male with 2 sharp and short horns of frons ····· 16
Male with 2 slender and long horns of frons ····· 18

16. Male with 2 parallel horns of frons ····· 17
Male with 2 not parallel horns of frons, but spreaded out outside; dorsum black, with strongly blue-green metal shinning. Body length 4.5-5.0 mm ····· P. marseuli Lewis, **1894**

17. Body larger than 4.5 mm, strongly convex, dim and green shinning; dorsal punctures lack, intervals striate of elytra slightly convex, with metal shinning ····· P. yangmingense Masumoto, **1982**
Body smaller than 4.5 mm (between 4.1-4.3 mm), weakly strongly convex, dark reddish brown; intervals striate of elytra flat and matte ····· P. endoi Masumoto, **1984**

18. 2 horns of frons in male subparallel, protended to anterior and upper; frons deeply cupped. Body length 4.5 mm ····· P. tuchinlongi Masumoto, **1982**
2 horns of frons in male horizontally protended ····· 19

19. Frons flatt between horns; pronotum wide; Aedeagus parameres sharp triangle. Body length 6.0 mm ··· P. guangxicum Schawaller, **2004**
Frons cupped between horns ····· 20

20. Frons bright, no punctures, deeply cupped between horns; dorsaum brown-yellow, with shinning, anterior part with weakly purple shinning. Body length 5.5-6.5 mm ····· P. higonium Lewis, **1894**
Frons Y-shaped cupped between horns; body large, wideded clearly to anterior; eyes round in lateral view. Body length 6.5-7.8 mm ····· P. terusane Masumoto, **1984**

21. Head without horns in male ····· 22
Head with horns in male ····· 24

22. Male meso- and metatibiae clearly curving in middle, gradually widened to apex. ····· 23
Male meso- and metatibiae unclearly curving in middle ····· P. fumosum Lewis, **1894**

23. Dorsum single black; distant between eyes 1.5 times wider than eye diameter; body large ····· P. detersum Walker, **1858**
Dorsum chestnut brown; distant between eyes almost equal to eye diameter. Body length 7.0-9.0 mm ····· P. sakishimense Nakane, **1973**

24. Distant between eyes equal to eye diameter in male; head with 2 asymmetry, separate and upright horns, right one thicker than left one; body small ····· P. subfascium (Walker, **1858**)
Distant between eyes 2 times wider than eye diameter in male; head with 2 upright horns, without hairs; clypeus transversely elliptical, front margin angle-form prominent ····· P. tricuspis Motschulsky, **1873**

The species from China

1) Platydema alticornis Gravely, **1915** (Fig. 8)

Platydema alticornis Gravely, 1915. Rec. Ind. Mus., 8: 525.
Anisocara gynandromorpha Gebien, 1925. Philipp. J. Sci., 28: 101; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 5-6.

Material examined. 2 ♂♂, 3 ♀♀, Mohan, Mengla County, Yunnan, 3-4 Aug. 2007, collected by REN Guo-Dong, HOU Wen-Jun and LI Ya-Lin.

Distribution. China (Yunnan, Taiwan), Nepal, Laos, Thailand, Burma (type locality Tenesserim), Vietnam, Philippines, Indonesia, Java, Luzon.

2) Platydema aurimaculatum Gravely, **1915** (Fig. 9)

Platydema aurimaculatum Gravely, 1915. Rec. Ind. Mus., 8: 523.
Platydema cederbolmi Kaszab, 1980. Acta Zool. Hung, 26 (1-3): 161; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 6.
Platydema monoceratoides Masumoto, 1982. Entomological Rev. Japan, 36 (2): 144; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 6.

Material examined. 5 ♂♂, 1 ♀, Limu Mountain, Hainan, 22 July 2006, collected by WANG Ji-Liang and GAO Chao; 1 ♂, 3 ♀♀, Xinwei Farm, Qiongzhong County, Hainan, 4 700 m, 17-18 May 2008, collected by BA Yi-Bin and LANG Jun-Tong; ♀, Wangtianshu, Mengla County, Yunnan, 6-7 Aug. 2007, collected by REN Guo-Dong, HOU Wen-Jun and LI Ya-Lin.

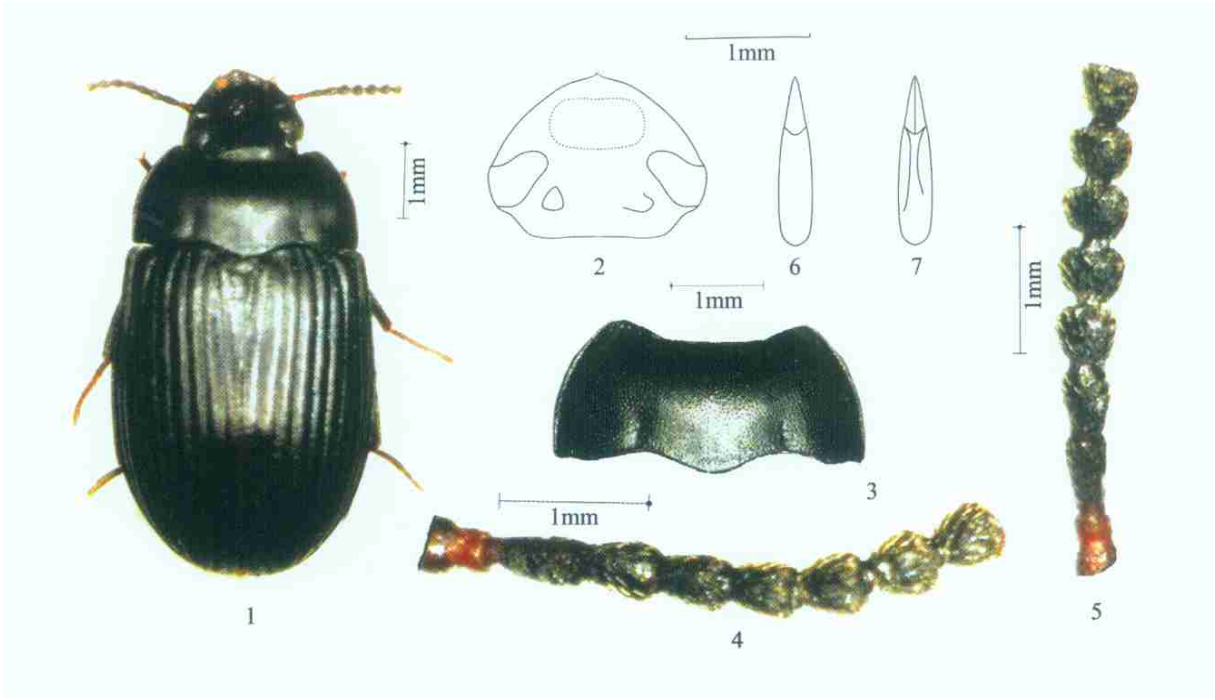
Distribution. China (Hainan, Yunnan, Taiwan), India (type locality), Sri Lanka, Burma, Thailand, Laos.

3) Platydema brunnea sp. nov. (Figs. 1-7)

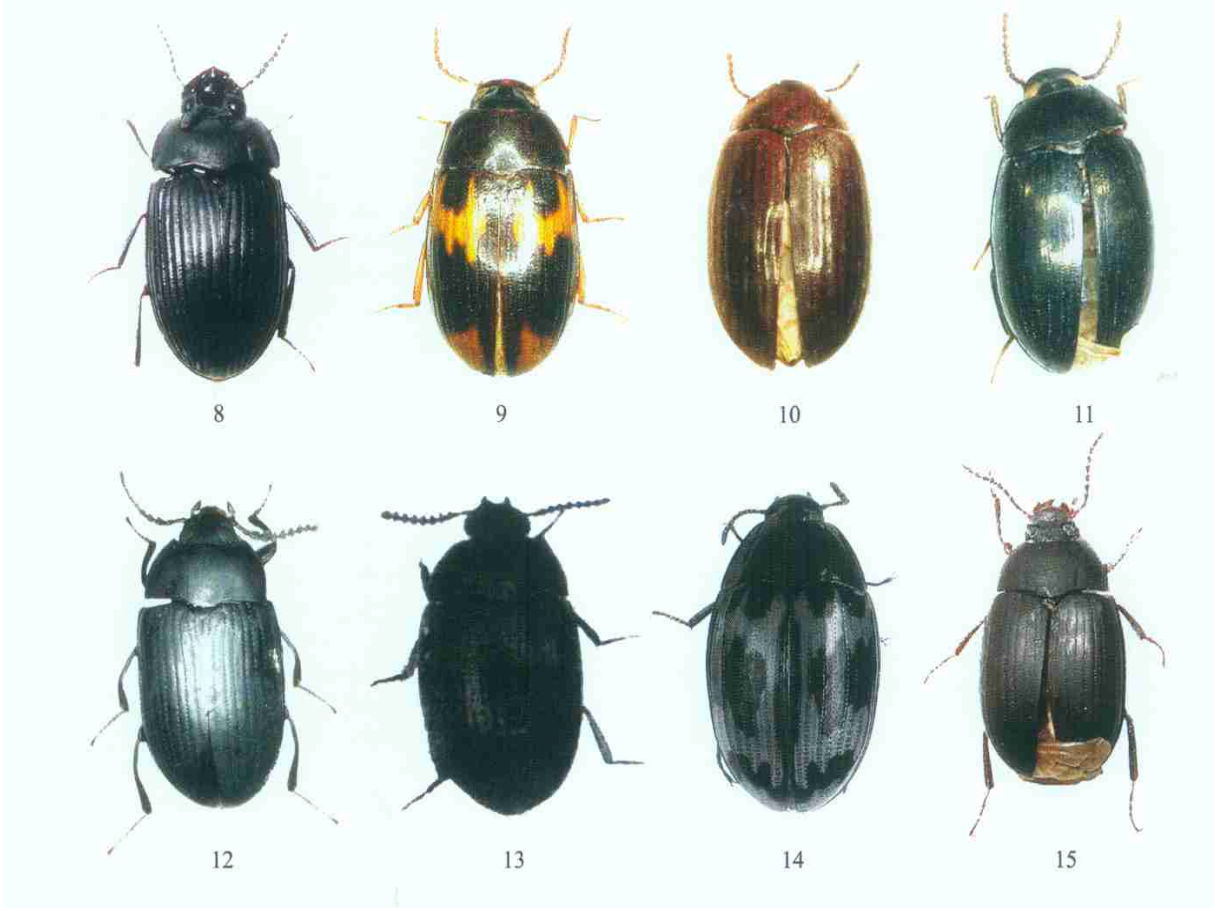
Brown black, feebly metal shinning. Mouthpart, ventral surface and legs dark brown, tarsi reddish brown. Body oblong-oval, strongly convex above.

Male. Head triangular, densely punctate. Clypeus feebly convex, anterior margin angle-form prominent; anterior genae convex, sides slightly arcuate, posterior genae inlaid into compound eyes; eyes large. Frons with 2 asymmetrical horns, left horn strumae; right horn produced afterward, base wide, apex narrow and long, no hairs. Anterior margin of clypeus and lateral margin of genae strongly curved upward. Antennae (holotype lack of the last 2 segments) loose stick, slightly exceeded base of Pronotum, beginning to swell from 4th segment, relative length of each segment from 2nd to 9th 2.0 4.0 : 3.5 2.9 3.0 2.8 2.6 2.5 2.9 4.0.

Pronotum transversely wide, about 3.0 times as broad as long; anterior margin strongly arcuate, wide and straight medially; lateral margins steeply oblique contracted from middle to apex; posterior margin foliiform enlarged afterward on middle, sides straight; border with whole edging except posterior margin; front angles obtusely triangular, posterior angles rectangular; disc convex, covered with fine, dense and even punctures, sides near base with oblique, longitudinal groove. Scutellum triangular, finely and evenly punctate. Elytra oblong-oval, strongly convex, about 2.8 times as long as broad, 4.5 times the length and 1.1 times the width of pronotum; shoulders caelate; sides subparallel, edging visible in dorsal view; punctato-striate deep, the punctures in striate distinct, intervals slightly convex,



Figs. 1-7. Platydema brunnea sp. nov. ♂ 1. Adult male. 2. Head. 3. Pronotum. 4. Right antenna. 5. Left antenna. 6. Aedeagus dorsal. 7. Aedeagus ventral.



Figs. 8-15. Platydema sp. 8. P. alticornis Gravely 9. P. aurimaculatum Gravely 10. P. chalceum Gebien 11. P. coeruleum Gebien 12. P. detersum Walker 13. P. endoi Masumoto (from Masumoto, 1984) 14. P. flavopictum Gebien (from Schwaller, 2004) 15. P. fumosum Lewis

finely and evenly punctured; epipleur whole. Prosternal process elliptical, anterior part with 1 longitudinal ridge. Anal segment transversely triangular, weakly convex, margins pubescent. Tibiae with finely round teeth in outer, keel-shape indistinct; tarsi inter with brush, ratios of the lengths of pro-, meso- and metatarsomeres 5.5 :4 :5 :4 :17; 14 :6 :5 :5 :21; 24 :9 :7 :7 :22. Aedeagus length 1.4mm, width 0.3 mm; parameres length 0.4 mm, spiky-form; basal plate length 1.0 mm, 2.5 times as long as parameres, sides subparallel.

Female. Clypeus front margin without angle-form prominent; frons with no horns, but with 2 symmetrical tuberecles, deeply cupped in middle. Other characters as male.

Body length ♂7.3-7.5 mm, ♀ 7.4-7.6 mm, width ♂3.2-3.4 mm, ♀3.3-3.5 mm.

Holotype ♂, Mohan, Mengla County, Yunnan, 3 Aug. 2007, collected by REN Guo-Dong. Paratypes: 1 ♂, 5 ♀♀, Mohan, Mengla County, Yunnan, 3-4 Aug. 2007, collected by REN Guo-Dong, HOU Wen-Jun and LI Ya-Lin.

Diagnosis. The new species can be distinguished from P. alticornis Gravely, 1915 by the following characters: body narrower and longer; the left horn on frons tubercle-form, and the right one base wide, apex long and narrow, no hairs; legs black brown, tarsi reddish brown.

Etymology. Named after its reddish brown tarsi.

4) Platydema chalceum Gebien, **1925** (Fig. 10)

Platydema chalceum Gebien, 1925. Philippine J. Sci., 27 (4): 572-573; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 7.

Material examined. 2 ♀♀, Zedong, Naidong County, Xizang, 25 Aug. 2002, collected by ZHU Ming-Sheng etc.

Distribution. China (Xizang, Taiwan), Indonesia, India, Java (type locality).

5) Platydema coeruleum Gebien, **1928** (Fig. 11)

Platydema coeruleum Gebien, 1928. Stett. Ent. Ztg., 89: 570; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 7.

Material examined. ♀, Huangqiong hollow, Yachang County, Guangxi, 23 July 2004, collected by YU Yang and GAO Chao.

Distribution. China (Guangxi, Taiwan (type locality)).

6) Platydema detersum Walker, **1858** (Fig. 12)

Platydema detersum Walker, 1858. Ann. Mag. Nat. Hist., (3) 2: 284; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 7-8.

Platydema valgum Pascoe, 1869. Ann. Mag. Nat. Hist., (4) 3: 281; Gebien, 1940. Mitt. Münchn. Ent. Ges., 410 (535).

Platydema malaccum Marseul, 1876. Ann. Soc. Ent. Fr., (5) 6: 108; Gebien, 1925. Philipp. Jour. Sci., 27 (4): 583.

Platydema laticorne Fairmaire, 1882. Notes Leyd. Mus., 4: 222; Gebien, 1925. Philipp. Jour. Sci., 27 (4): 583.

Platydema annamitum Fairmaire, 1893. Ann. Soc. Ent. Fr., 62: 24; Gebien, 1925. Philipp. Jour. Sci., 27 (4): 583.

Platydema detersum rubripes Gebien, 1925: Philipp. Jour. Sci., 27 (4): 539-593; Gebien, 1940, Mitt. Münchn. Ent. Ges., 410 (535).

Material examined. 1 ♂, 3 ♀♀, Miao Village, Baisha County, Hainan, 4-5 June 2007, collected by BA Yi-Bin and LANG Jun-Tong; 1 ♂, 1 ♀, Kaishibo, Baisha County, Hainan, 1-2 June 2007, collected by BA Yi-Bin and LANG Jun-Tong; 18 ♂♂, 15 ♀♀, Nansan, Zhenkang County, Yunnan, 4 700 m, 19-21 July 2008, collected by XU Ji-Shan and ZHOU Yong; ♂, Banhong, Cangyuan County, Yunnan, 1 130 m, 16-18 July 2008, collected by XU Ji-Shan and GAO Zhen-Hua.

Distribution. China (Yunnan, Hainan, Taiwan), Philippines, New Guinea, Australia, Sri Lanka (type locality), India, Thailand, Laos, Vietnam, Sunda Islands.

7) Platydema endoi Masumoto, **1984** (Fig. 13)

Platydema endoi Masumoto, 1984. Elytra, 11: 22.

Material examined. None.

Distribution. China (Taiwan (type locality)).

8) Platydema flavopictum Gebien, **1913** (Fig. 14)

Platydema flavopictum Gebien, 1913. Arch. Naturg., 79, A9: 17; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 8.

Material examined. None.

Distribution. China (Taiwan (type locality)), Burma, Thailand.

9) Platydema fumosum Lewis, **1894** (Fig. 15)

Platydema fumosum Lewis, 1894. Ann. Mag. Nat. Hist., (6) 13: 395; Chujo and Lee, 1993. Esakia, 33: 109; Kwon et al., 1996. Knccn, 162; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 8.

Platydema fumosum formosanum Gebien, 1925. Philipp. Jour. Sci., 27 (4): 589.

Material examined. 1 ♂, 1 ♀, Jigong Mountain, Xinyang County, Henan, 12 July 2005, collected by WANG Ji-Liang and GAO Chao.

Distribution. China (Henan, Fujian, Taiwan), Japan (type locality), Korea.

10) Platydema guangxicum Schawaller, **2004** (Fig. 16)

Platydema guangxicum Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) 671: 24, 38-39.

Material examined. 1 ♂, Baotian Mountain, Neixiang County, Henan, 22 Aug. 2008, collected by REN Guo-Dong etc.

Distribution. China (Henan, Guangxi (type locality)).

11) Platydema haemorrhoidale Gebien, **1913** (Fig. 17)

Platydema haemorrhoidale Gebien, 1913. Arch. Naturg., 79, A9: 16; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 9.

Material examined. None.

Distribution. China (Fujian, Taiwan (type locality)), Nepal, Vietnam, India.

12) Platydema higonium Lewis, **1894**

Platydema higonium Lewis, 1894. Ann. Mag. Nat. Hist., (6) 13: 394; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 9.

Material examined. None.

Distribution. China (Fujian), Japan (type locality).

13) Platydema indicum Gebien, **1940** (Fig. 18)

Basides ruficolle Motschulsky, 1873. (homonym of B. ruficolle Laporte et Brullé, 1831).

Platydema indicum Gebien, 1940. Mitt. München. Ent. Ges., 30; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 9.

Material examined. ♂, Bawang Mountain, Changjiang County, Hainan, 8 July 2006, collected by WANG Ji-Liang and GAO Chao; 2 ♂♂, 1 ♀, Wuzhi Mountain, Hainan, 24 July 2006, collected by WANG Ji-Liang and GAO Chao.

Distribution. China (Hainan), new record, India (type locality), Thailand, Malaysia, Vietnam.

14) Platydema marseuli Lewis, **1894** (Fig. 19)

Platydema marseuli Lewis, 1894. Ann. Mag. Nat. Hist., (6) 13: 394; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 12.

Platydema nigroaeneum Harold, 1878. Deutsche Ent. Zeitsch., 22: 78; Marseul, 1876, Ann. Soc. Ent. Fr., V6: 105; Fairmaire, 1888. Ann. Soc. Ent. Fr., VI8: 355.

Platydema benakatense Masumoto et Makinara, 1997. Bull. For. Pro. Res. Inst. Ibar. 374: 119; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 12.

Material examined. 3 ♂♂, Arboretum, Xujiang County, Shanghai, 12-17 Mar. 2006, collected by BI Wen-Heng; 5 ♂♂, Jiuxi, Hangzhou County, Zhejiang, 25 Mar. 2006, collected by BI Wen-Heng; 2 ♂♂, Mohan, Mengla County, Yunnan, 3-4 Aug. 2007, collected by REN Guo-Dong, HOU Wen-Jun and LI Ya-Lin; ♂, Yuanmen, Baisha County, Hainan, 28-29 May 2007, collected by BA Yi-Bin and LANG Jun-Tong.

Distribution. China (Shanghai, Zhejiang, Yunnan, Hainan, Taiwan), Japan (type locality), India, Philippines.

15) Platydema pallidicollis Lewis, **1894** (Fig. 20)

Platydema pallidicollis Lewis, 1894. Ann. Mag. Nat. Hist., 6 (13): 398; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 14.

Platydema sodale Waterhouse, 1894. Ann. Mag. Nat. Hist., 6 (14): 70; Gebien, 1925. Philippine J. Sci., 27 (4): 551-552.

Material examined. 1 ♂, Mohan, Mengla County, Yunnan, 3-4 Aug. 2007, collected by REN Guo-Dong, HOU Wen-Jun and LI Ya-Lin.

Distribution. China (Yunnan, Taiwan), Philippines, Japan (type locality).

16) Platydema parachalceum Masumoto, **1982**

Platydema parachalceum Masumoto, 1982. Ent. Rev. Japan, 36 (2): 147-148; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 14-15.

Platydema zoltani Masumoto, 1985. Ent. Rev. Japan, 40 (2): 121-124; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 14-15.

Material examined. None.

Distribution. China (Fujian, Yunnan, Shaanxi, Hubei, Guizhou, Taiwan (type locality)), Philippines, New Guinea, Australia.

17) Platydema sakishimense Nakane, **1973**

Platydema sakishimense Nakane, 1973. Mem. Nat. Sci. Mus. Tokyo, (6): 104, 108.

Material examined. None.

Distribution. China (Taiwan), Japan (type locality).

18) Platydema sauteri Gebien, **1913** (Fig. 21)

Platydema sauteri Gebien, 1913. Arch. Naturg., 79, A9: 15; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 17.

Material examined. 9 ♂♂, 13 ♀♀, Huaguo Mountain, Yiyang County, Henan, 3 Aug. 2006, collected by WANG Feng-Yan and HUANG Wen-Jing; 1 ♂, Yuexi County, Anhui, 17-21 July 2007, collected by BA Yi-Bin, LANG Jun-Tong and WANG Feng-Yan.

Distribution. China (Henan, Anhui, Taiwan (type locality)), Japan.

19) Platydema semimetallicum Blair, **1930** (Fig. 22)

Platydema semimetallicum Blair, 1930. Ent. Mon. Mag., 66: 177; Schawaller, 2003. Biodiversität und Naturausstattung im Himalaya, S. 260, Taf. Ⅳ-Ⅴ.

Platydema martensi Schawaller, 1994. Entomofauna. 15: 262; Schawaller, 2003. Biodiversität und Naturausstattung im Himalaya, S. 260, Taf. Ⅳ-Ⅴ.

Material examined. None.

Distribution. China (Xizang), India (type locality), Nepal.

20) Platydema subfascium Walker, **1858** (Fig. 23)

Platydema subfascium Walker, 1858. Ann. Mag. Nat. Hist., 2 (3): 284; Gebien, 1925. Philippine J. Sci., 27 (4): 558; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 19.

Hoplocephala cedebum Chevrolat, 1877. Pet. Nouv. Ent., 2 (182): 178; Gebien, 1940. Mitt. Münchn. Ent. Ges., 409 (534).

Hoplocephala diversidens Fairmaire, 1983. Ann. Fr., 62: 24; Gebien, 1940. Mitt. Münchn. Ent. Ges., 409 (534).

Platydema var. hoanum Pic, 1929. Mel. Ent., 54: 33; Gebien, 1940. Mitt. Münchn. Ent. Ges., 409 (534).

Alphitophagus japanum Marseul, 1876. Ann. Fr., (5) 6: 109; Lewis, 1894. Ann. Mag., (6) 13: 397; Gebien, 1940. Mitt. Münchn. Ent. Ges., 409 (534).

Basides picicolle Motschulsky, 1873. Bull. Mosc., 46: 474; Gebien, 1940. Mitt. Münchn. Ent. Ges., 409 (534).

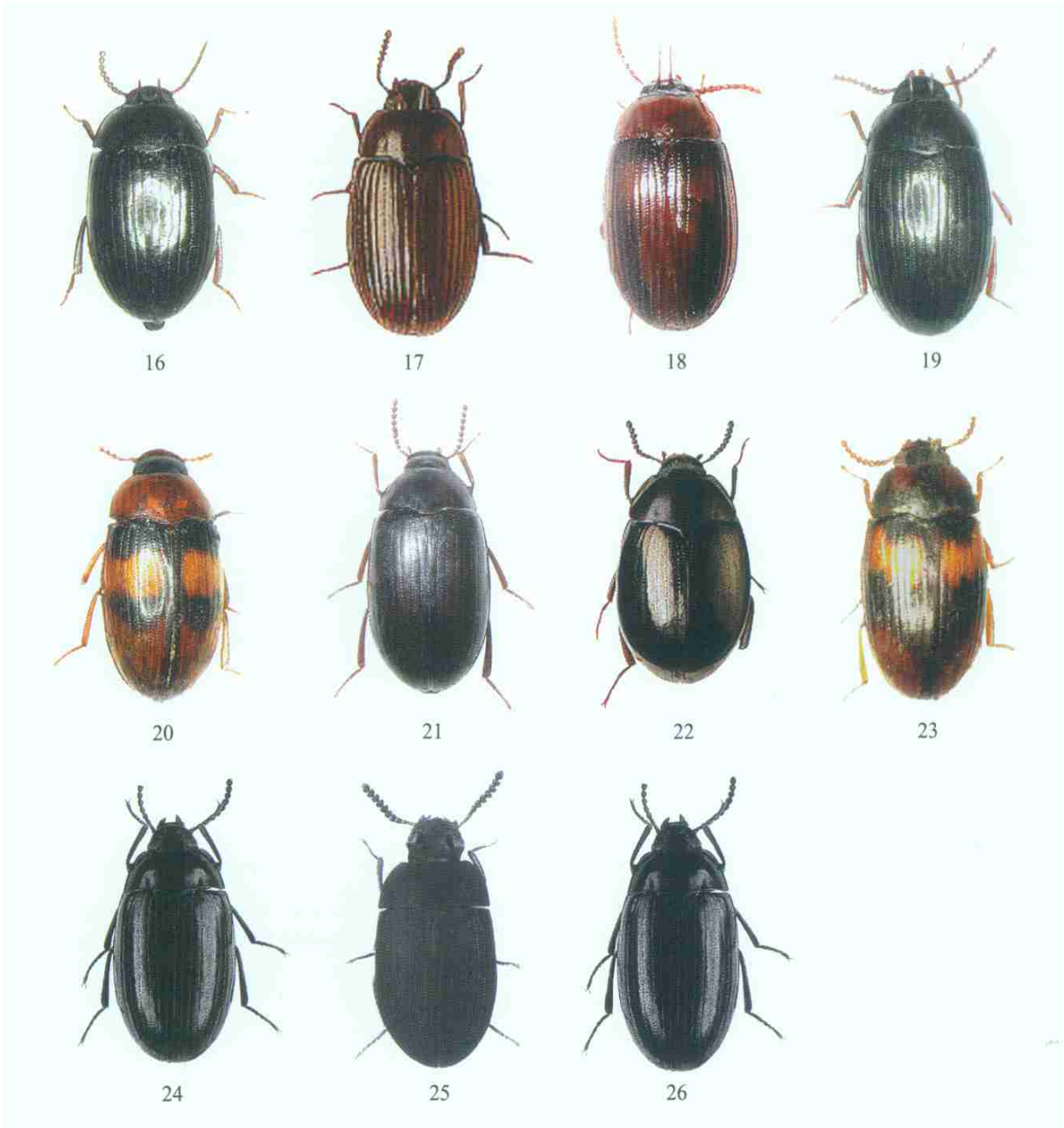
Material examined. 23 ♂♂, 30 ♀♀, Yuanmen, Baisha County, Hainan, 28-29 May 2007, collected by BA Yi-Bin and LANG Jun-Tong; 5 ♂♂, 1 ♀, Xinwei Farm, Qiongzhong County, Hainan, 4 700 m, 17-18 May 2008, collected by BA Yi-Bin and LANG Jun-Tong.

Distribution. China (Fujian, Hainan, Taiwan), Japan, Burma, Malaysia, India, Indonesia, Madagascar, Sri Lanka (type locality).

21) Platydema terusane Masumoto, **1984** (Fig. 24)

Platydema terusane Masumoto, 1984. Elytra, 11: 21.

Material examined. None.



Figs. 16-26. Platydema sp. 16. P. guangxicum Schawaller 17. P. haemorrhoidale Gebien (from Schwaller, 2003) 18. P. indicum Gebien 19. P. marseuli Lewis 20. P. pallidicollis Lewis 21. P. sauteri Gebien 22. P. semimetallicum Blair (from Schwaller, 2003) 23. P. subfascium Walker 24. P. terusane Masumoto (from Masumoto, 1984) 25. P. tricuspis Motschulsky (from Schwaller, 2004) 26. P. yunnanicum Schawaller (from Schwaller, 2004)

Distribution. China (Taiwan (type locality)).

22) Platydema tricuspis Motschulsky, **1873** (Fig. 25)

Platydema tricuspis Motschulsky, 1873. Bull. Imp. Nat. Mosc., 42: 479; Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 20.

Platydema timorense Marseul, 1876. Ann. Soc. Ent. Fr., V6: 108; Gebien, 1925. Philippine J. Sci., 27 (4): 578.

Platydema reflexum Chevrolat, 1878. Pet. Nouv. Ent., 2: 222; Gebien, 1925. Philippine J. Sci., 27 (4): 578.

Material examined. None.

Distribution. China (Taiwan), India (type locality), Philippines, New Guinea, Australia.

23) Platydema tuchinlongi Masumoto, **1982**

Platydema tuchinlongi Masumoto, 1982. Ent. Rev. Japan, 36 (2): 149-150.

Material examined. None.

Distribution. China (Taiwan (type locality)).

24) Platydema yangmingense Masumoto, **1982**

Platydema yangmingense Masumoto, 1982. Ent. Rev. Japan, 36 (2): 148-149.

Material examined. None.

Distribution. China (Taiwan (type locality)).

25) Platydema yunnanicum Schawaller, **2004** (Fig. 26)

Platydema yunnanicum Schawaller, 2004. Stuttgarter Beitr. Naturk., (A) Nr. 671: 46.

Material examined. None.

Distribution. China (Yunnan (type locality)).

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中国宽菌甲属昆虫研究及一新种记述 (鞘翅目, 拟步甲科)

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摘 要 对中国宽菌甲属 Platydema Laporte et Brullé, 1831 已知种类进行了分类整理, 给出已知 25 种的识别检索表和成虫形态图, 并描述了 1 新种, 棕跗宽菌甲 Platydema brunnea sp. nov.。模式标本保存于河北大学博物馆。

棕跗宽菌甲, 新种 Platydema brunnea sp. nov. (图 1～7)

正模 ♂, 云南勐腊磨憨, 2007-08-03, 任国栋采。**副模**: 1 ♂,5 ♀♀,云南勐腊磨憨, 2007-08-03, 任国栋、侯文君、李亚林采。

新种在外形上与高角宽菌甲 P. alticornis Gravely, 1915 近似, 两者的主要区别为: 1) 前者身体狭长, 而后者较短; 2) 前者左额角瘤突状, 右额角基部宽阔, 端部狭长, 顶端无毛; 而后者的左角长于右角, 左角片状, 两侧平行, 端部具毛簇, 右角短三角形, 端部尖, 无毛; 3) 前者足黑褐色, 跗节棕色; 而后者胫、跗节浅褐色。

词源: 种名根据跗节棕色得名。

关键词 鞘翅目, 拟步甲科, 宽菌甲属, 新种, 中国.

中图分类号 Q969.498.2